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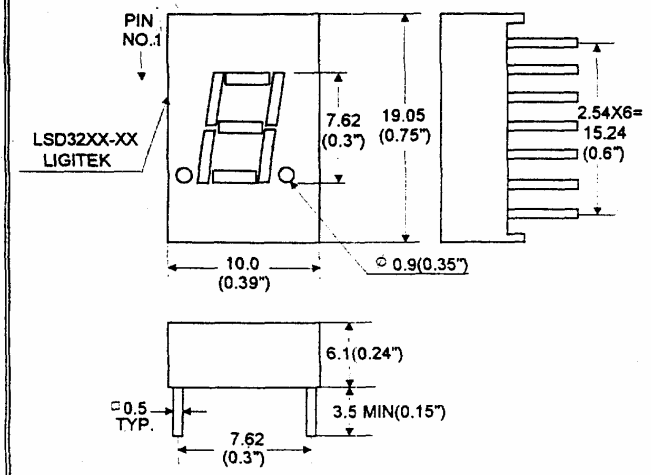
Jameco Part Number 24782

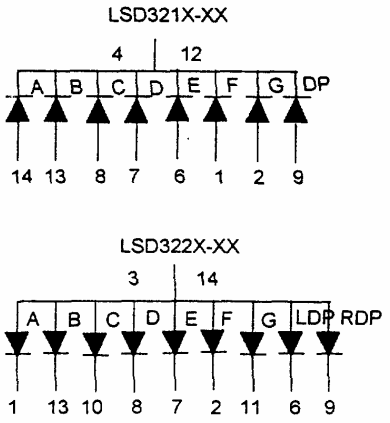
LIGITEK

SINGLE DIGIT LED DISPLAY (0.3 Inch) **LSD321X/2X** series

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance Is ±0.25(0.01") Unless Otherwise Noted

- **Connection To Electrical Schematic**

Electrical Connection

PIN NO.	LSD321X-XX	PIN NO.	LSD322X-XX
1	Anode F	1	Cathode A
2	Anode G	2	Cathode F
3	No Pin	3	Common Anode
4	Common Cathode	4	No Pin
5	No Pin	5	No Pin
6	Anode E	6	Cathode LDP
7	Anode D	7	Cathode E
8	Anode C	8	Cathode D
9	Anode DP	9	Cathode RDP
10	No Pin	10	Cathode C
11	No Pin	11	Cathode G
12	Common Cathode	12	No Pin
13	Andoe B	13	Cathode B
14	Andoe A	14	Common Andoe

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• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	Δλ (nm)	Electrical					IV-M
						Vf(v)			Iv(mcd)		
	material	emitted				Min	Typ.	Max	Min	Typ.	
LSD3215-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	5.9	9.8	2:1
LSD3211-XX	GaP	Red		697	90	1.7	2.1	2.8	1.5	2.5	2:1
LSD3212-XX	GaP	Green		565	30	1.7	2.1	2.8	2.2	3.7	2:1
LSD3213-XX	GaAsP/GaP	Yellow		585	35	1.7	2	2.8	4.2	7.0	2:1
LSD3214-XX	GaAsP/GaP	Orange		635	45	1.7	2	2.8	4.5	7.5	2:1
LSD3225-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	5.9	9.8	2:1
LSD3221-XX	GaP	Red		697	90	1.7	2.1	2.8	1.5	2.5	2:1
LSD3222-XX	GaP	Green		565	30	1.7	2.1	2.8	2.2	3.7	2:1
LSD3223-XX	GaAsP/GaP	Yellow		585	35	1.7	2	2.8	4.2	7.0	2:1
LSD3224-XX	GaAsP/GaP	Orange		635	45	1.7	2	2.8	4.5	7.5	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red			Green		Yellow			Orange		Unit	Remark
Forward Current Per Chip	SR	R	H	PG	G	PY	Y	A	I	E		
	40	40	15	30	30	20	20	20	30	30	mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200	200	60	120	120	80	80	80	120	120	mA	
Power Dissipation Per Chip	110		45	100		85			100		mW	
Derating Linear From 25°C Per Chip	0.45		0.25	0.45		0.45			0.45		mA/ °C	
Reverse Current Per Any Chip	10			10		10			10		μA	
Operating Temperature	-25°C TO +85°C											
Storage Temperature	-25°C TO +85°C											

Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260°C

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=20mA
Luminous Intensity Per Chip	Iv	mcd	If=10mA
Peak Emission Wavelength	λP	nm	If=20mA
Spectral Line Half-Width	Δλ	nm	If=20mA
Reverse Current Any Chip	Ir	μA	Vr=5V
Luminous Intensity Matching Ratio	IV-M		

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